

Appendix 1. ICD-9 Codes for Medical and Obstetric Complications Used to Identify Cases in the NIS 2008 – 2010, and Co-morbid Conditions Used as Covariates

Medical Condition	ICD-9 codes
Heart Disease	
Cardiomyopathy	425.x, 674.5x
Valvular heart disease	394-397, 424, V42.2
Congenital heart disease	745-747.49, 648.5
Cardiac conduction disorders	426.0-426.9, 785.0, 785.1, V45.0, V53.3
Pulmonary Disease	
Asthma	493.x
Pulmonary hypertension, disorders of pulmonary circulation, pulmonary heart disease	416.x-417.x
Endocrine	
Diabetes (non-gestational)	249.x, 250.x, 648.0x
Thyroid disease	240.x-246.x, 648.1x
Autoimmune	
Systemic lupus erythema.	710.0, 695.4, 583.8
Rheumatoid arthritis/ collagen disease	701.0, 710, 710.1x-710.9x, 714.x, 720.x, 725
HIV infection	042
Hematologic	
Thrombophilia (includes history of thrombosis and antiphospholipid syndrome [APS])	273.8, 286.53, 286.9, 289.81, 289.82, V12.51
Anemia	648.2x, 280.x, 285.x
Thrombocytopenia	287.3x, 287.4x, 287.5x
Drug/Alcohol/Tobacco	

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Drug use	292.x, 304.x, 305.2x-305.9x, 655.5x, 760.70, 760.72-760.75, 779.5, 965.0x, V65.42
Alcohol use	291.x, 303.x, 305.0x, 760.71, 980.0x
Tobacco use	305.1, V15.82, 649.0x
Chronic hypertension/renal failure	
Chronic Hypertension	401.x-405.x, 437.2, 642.0x-642.2x
Chronic Renal Failure	585.x, 792.5, V42.0, V45.1, V56.x
Event or Condition	
Mechanical Ventilation	Procedure codes: 93.90, 96.01-96.05, 96.7x
Transfusion	V58.2, Procedure codes: 99.00-99.09
Cardiac Event	
Myocardial infarction/ischemia	410.x, 411.x
Cardiac arrest/ventricular fibrillation	427.41, 427.42, 427.5
Arrhythmias	427.x
Heart failure	428.x
Pulmonary Event	
Pneumonia	480.x-486.x, 487.0
Pulmonary edema	518.4
Acute respiratory distress syndrome	518.5
Thromboembolic Event	
Pulmonary embolism	415.1x, 673.x
Deep venous thrombosis	451.1x, 451.2x, 671.3x, 671.4x
Stroke/cerebrovascular disorders	325, 430, 431, 432.x, 433.x, 434.x, 436, 437.x, 671.5x, 674.0x, 997.2, 999.2
Infections	
Sepsis	038.x, 790.7

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Renal Event	
Acute renal failure	584.x, 639.3x, 669.3x
Obstetric Events	
Multiple Gestation	651.x, 652.6x, V27.2-V27.7
Operative vaginal delivery	Procedure codes: 720-724, 726, 727-727.9
Gestational diabetes	648.8x
Preeclampsia, eclampsia or gestational hypertension	642.3x-642.7x
Preterm labor	644.x
Placental abruption	641.2x
Fetal growth restriction	656.5x
Intrauterine fetal death	656.4x
Placenta previa	641.0-641.1x
Postpartum hemorrhage	666-666.2x
Chorioamnionitis	658.4x, 659.2x

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